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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/697,443	10/30/2003	Dirk Stenkamp	1/1406	7729
28501 75	90 12/22/2005		EXAMINER	
MICHAEL P. MORRIS			MORRIS, PATRICIA L	
BOEHRINGER INGELHEIM CORPORATION 900 RIDGEBURY ROAD			ART UNIT	PAPER NUMBER
P. O. BOX 368			1625	
RIDGEFIELD,	CT 06877-0368		DATE MAILED: 12/22/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Occurrence	10/697,443	STENKAMP ET AL.					
Office Action Summary	Examiner	Art Unit					
	Patricia L. Morris	1625					
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence addres	S				
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication  - If NO period for reply is specified above, the maximum statutory pe  - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re . riod will apply and will expire SIX (6) MON tatute, cause the application to become AB	CATION.  eply be timely filed  THS from the mailing date of this communated the communated states of the community of the commu					
Status							
1) Responsive to communication(s) filed on _							
_	This action is non-final.						
·—	<del>,</del>						
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•						
4)⊠ Claim(s) <u>1-21</u> is/are pending in the applicat	tion.						
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
Claim(s) is/are rejected.							
7)⊠ Claim(s) <u>18-21</u> is/are objected to.	•						
8) Claim(s) 1-17 are subject to restriction and	or election requirement.						
Application Papers							
9) The specification is objected to by the Exam	niner.						
10) The drawing(s) filed on is/are: a)		by the Examiner.					
Applicant may not request that any objection to	the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the cor	rection is required if the drawing(	s) is objected to. See 37 CFR 1.	121(d).				
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-1	52.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:		119(a)-(d) or (f).					
	1. Certified copies of the priority documents have been received.						
_	<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
•	•	received in this National Stag	je				
application from the International Bur  * See the attached detailed Office action for a	· · · · · · · · · · · · · · · · · · ·	raccivad					
occ the attached detailed Office action for a	nation the certified copies flot i	eceiveu.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		)/Mail Date formal Patent Application (PTO-152)	`				
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date</li> </ol>	6) Other:		1				

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## **DETAILED ACTION**

## Election/Restriction

The variations in Y, A, X, R<sup>1</sup>-R<sup>10</sup>, etc., produce patentably distinct compounds capable of independent use. The compounds set forth in claim 1 do not belong to a recognized class of chemical compounds

This application has been found to contain more than one invention. Therefore, restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. The instances wherein Y is phenyl, A is pyridine, and R<sup>1</sup>R<sup>2</sup>N represent nonheterocyclic groups classified in class 546, various subclasses.
- II. The instances wherein Y is phenyl, A is pyrimidine and R<sup>1</sup>R<sup>2</sup>N represent non-heterocyclic groups, classified in class 544, various subclasses.
- III. The instances wherein Y is phenyl, A is pyridine and R<sup>1</sup>R<sup>2</sup>N represent a pyrrolidine, classified in class 546, subclass 276.4+.
- IV. The instances wherein Y is phenyl, A is pyridine and R<sup>1</sup>R<sup>2</sup>N represent a piperidine, classified in class 546, subclass 193+.
- V. The instances wherein Y is phenyl, A is pyridine and R<sup>1</sup>R<sup>2</sup>N represent a pyridine classified in class 546, various subclass 256+.
- VI. The instances wherein Y is phenyl, A is pyridine and R<sup>1</sup> R<sup>2</sup>N represent a piperazine, classified in class 544, subclass 359+.
- VII. The instances wherein Y is phenyl, A is pyridine and R<sup>1</sup> R<sup>2</sup>N represent an isoquinoline, classified in class 546, subclass 139+.

VIII. The instances wherein Y is phenyl, A is pyridazine and R<sup>1</sup> R<sup>2</sup>N represent a morpholine, classified in class 544, subclass 124+.

- IX. The instances wherein Y is pyrimidine, A is pyridine and R<sup>1</sup>R<sup>2</sup>N represent pyrrolidine, classified in class 544, subclass 333+.
- X. The instances wherein Y is pyridazine, A is pyridine, and R<sup>1</sup>R<sup>2</sup>N is a pyrrolidine, classified in class 544, subclass 238.
- XI The instances wherein Y is imidazo {4,5-b]pyridine, A is pyridine and R<sup>1</sup>R<sup>2</sup>N Represent pyrrolidine, classified in class 546, subclass 121+.
- XII Any compound not grouped in Groups I-XI.

Claims 1-14 are too vague to further group.

Claims 18-21 are drawn to non-statutory subject matter and cannot be grouped at this time. In the event that applicants amend the claims, it will be grouped accordingly.

These inventions are distinct, each from the other because of the following reasons:

These distinct inventions have acquired separate status in the art, will support separate patents, and will require different fields of search for the respective inventions. Accordingly, restriction for examination purposes as indicated is considered proper; 35 U.S.C. 121; 37 CFR 1.141; 37 CFR 1.142.

Inventions I- XII are drawn to patentably distinct compounds.

A Markush-type claim is directed to Aindependent and distinct inventions, if two or more of its members are so unrelated and diverse that a prior art reference anticipating the claim with respect to one of the members would not render the claim obvious under 35 U.S.C. 103 with respect to the other member(s). <u>In re Weber</u>, 198 USPQ 330, footnote 3.

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A reference to an pyrimidine here would not be a reference to a pyridine. When one writes out the entire compound, as a whole, one arrives at patentably distinct heterocyclic compounds, along the lines indicated in the Groups of the first page of this action. Distinct, independent, heterocyclic nuclei.

Independent means the compound is capable of being utilized alone, not in combination with other compounds listed in the Markush expression; MPEP 802.01.

If the members are so diverse that they will support separate patents, *i.e.*, a reference for one would not constitute a reference for the other, then restriction is considered proper.

MPEP 2173.05(h).

In the event of an election of either Groups I, II, III, IV, V, VI, VII, VIII, IX, X, XI or XII, applicants are required to elect a single disclosed species representative of the claimed invention since the variations in  $R^1 - R^{14}$ , cy, etc., encompass all heterocyclic chemistry classified in classes 540, 544, 546 and 548, various subclasses. The staggering arrangement of possibilities does not permit classification of the claimed subject matter. Each heterocycle represents an independent and patentably distinct invention.

Should applicant(s) traverse on the ground that the species inventions identified are not patentably distinct, applicants should submit evidence or identify such evidence now of record showing the above identified species inventions to be obvious variants, or clearly admit on the record that this is the case. In either instance, of traverse, if the examiner finds one of the inventions in the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103 of the other invention.

Claims 1-17 will be examined to the extent readable on the elected compounds.

It is too burdensome for the examiner to search all of the previously noted searches in their respective, completely divergent, areas for the non-elected subject matter, as well, in the limited time provided to search one invention.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

In, <u>In re Weber</u>, 198 USPQ 332, <u>In re Hengehold</u>, 169 USPQ 473, was noted for the proposition that as long as applicants have maintained the right (as they do here) to file the non-elected subject matter in divisional applications, then restriction is proper, as to that point.

Applicant may file the divisional subject matter noted in divisional applications. If applicant wishes a generic expression of the elected invention the claims here need be amended to reflect that election.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

This restriction requirement is being written as previous experience has indicated that with Foreign applicants and the inherent time delays, applicants' representative is better able to make an informed, correct, election of the invention applicants would wish to have prosecuted here if applicants are given the opportunity to see the restriction requirement laid out, and given the time to make an informed decision.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

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currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia L. Morris whose telephone number is (571) 272-0688. The examiner can normally be reached on Mondays through Fridays.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

plm

December 19, 2005

Primary Examiner Art Unit 1625